

FLADE GAS TURBINE ENGINE WITH COUNTER-ROTATABLE FANS

ABSTRACT

An exemplary embodiment of a FLADE counter-rotating fan aircraft gas turbine engine includes at least one row of FLADE fan blades disposed radially outwardly of and drivingly connected to one of axially spaced-apart first and second counter-rotatable fans. A core engine located downstream and axially aft of the first and second counter-rotatable fans is circumscribed by a fan bypass duct downstream and axially aft of the first and second counter-rotatable fans. The row of FLADE fan blades radially extend across a FLADE duct circumscribed about the first and second counter-rotatable fans and the fan bypass duct. A second low pressure turbine is drivingly connected to the first counter-rotatable fan and a first low pressure turbine is drivingly connected to the second counter-rotatable fan.